

We claim:

1. A process of imparting fire retardant properties to a cellulosic material comprising coating a cellulosic material with sodium silicate by contacting a sodium silicate solution with the material to be coated, and dehydrating the coating.
2. The process of claim 1 wherein the contacting step is selected from the group consisting of dipping and soaking.
3. The process of claim 1 wherein the contacting step is performed at subatmospheric pressure.
4. The process of claim 1 wherein the contacting step is performed at superatmospheric pressure.
5. The process of claim 1 further comprising the steps of depositing a coating of a silicon oxide glassy film on the sodium silicate coated material.
6. The process of claim 5 where sufficient depositing is effected so as to impart waterproofing properties to the sodium silicate coated material.
7. The process of claim 5 wherein sufficient depositing is effected so as to impart fire resistance to the sodium silicate coated material.
8. The product produced by the process of claim 1.
9. The product produced by the process of claim 6.
10. The product produced by the process of claim 7.
11. The process of claim 1 wherein the sodium silicate solution has a concentration of 0.04g-400g of sodium silicate per kilogram of water.
12. The process of claim 11 wherein the concentration is 200-300 grams sodium silicate per kilogram of water.

13. The process of claim 5 wherein the coating is a mono-molecular layer of silicon monoxide.
14. The process of claim 5 wherein the coating is achieved by vacuum deposition.

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	